

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR120425\
 Data File : VR026791.D
 Acq On : 4 Dec 2025 12:41
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_R/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTDIC010

Quant Time: Dec 05 03:46:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R120425S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:44:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.796	168	590520	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.771	114	1067125	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.921	117	1064288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.130	152	651872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.178	65	67506	9.396	ug/l	0.00
Spiked Amount 50.000			Recovery	=	18.800%	
35) Dibromofluoromethane	7.720	113	59558	9.849	ug/l	0.00
Spiked Amount 50.000			Recovery	=	19.700%	
50) Toluene-d8	10.428	98	303447	10.655	ug/l	0.00
Spiked Amount 50.000			Recovery	=	21.320%	
62) 4-Bromofluorobenzene	13.049	95	96064	8.777	ug/l	0.00
Spiked Amount 50.000			Recovery	=	17.560%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.997	85	63383	9.514	ug/l	93
3) Chloromethane	2.202	50	90374	9.824	ug/l	95
4) Vinyl Chloride	2.332	62	102200	10.119	ug/l	98
5) Bromomethane	2.684	94	79721	9.286	ug/l	99
6) Chloroethane	2.831	64	68550	9.809	ug/l	99
7) Trichlorofluoromethane	3.160	101	153046	9.506	ug/l	88
8) Diethyl Ether	3.566	74	39409	10.461	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.912	101	75058	9.937	ug/l	98
10) Methyl Iodide	4.100	142	59203	10.885	ug/l #	96
11) Tert butyl alcohol	4.911	59	122417m	50.899	ug/l	
12) 1,1-Dichloroethene	3.895	96	75320	10.209	ug/l	94
13) Acrolein	3.759	56	12029m	68.150	ug/l	
14) Allyl chloride	4.476	41	128344	9.525	ug/l	98
15) Acrylonitrile	5.140	53	99115	45.854	ug/l #	86
16) Acetone	3.983	43	154256	49.302	ug/l	94
17) Carbon Disulfide	4.212	76	221225	9.820	ug/l	97
18) Methyl Acetate	4.488	43	49050	8.918	ug/l	99
19) Methyl tert-butyl Ether	5.217	73	175038	9.232	ug/l	93
20) Methylene Chloride	4.700	84	90397	10.079	ug/l #	86
21) trans-1,2-Dichloroethene	5.199	96	78901	9.818	ug/l	96
22) Diisopropyl ether	6.092	45	253609	9.261	ug/l #	95
23) Vinyl Acetate	6.022	43	631556	47.162	ug/l	98
24) 1,1-Dichloroethane	5.980	63	148379	9.644	ug/l	99
25) 2-Butanone	6.973	43	193473	50.199	ug/l	97
26) 2,2-Dichloropropane	6.956	77	124551	9.362	ug/l	97
27) cis-1,2-Dichloroethene	6.956	96	88446	9.426	ug/l	93
28) Bromochloromethane	7.320	49	64021	9.896	ug/l	100
29) Tetrahydrofuran	7.349	42	75203	42.931	ug/l	95
30) Chloroform	7.496	83	135799	9.605	ug/l #	82
31) Cyclohexane	7.790	56	164773	9.966	ug/l	88
32) 1,1,1-Trichloroethane	7.708	97	118197	9.614	ug/l	98
36) 1,1-Dichloropropene	7.937	75	115085	10.305	ug/l	95
37) Ethyl Acetate	7.056	43	49700	8.912	ug/l #	76
38) Carbon Tetrachloride	7.925	117	94467	9.520	ug/l	87
39) Methylcyclohexane	9.324	83	160405	9.628	ug/l	94
40) Benzene	8.196	78	322104	9.419	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.297	41	27451	7.849	ug/l #	80
42) 1,2-Dichloroethane	8.278	62	80092	9.461	ug/l	94
43) Isopropyl Acetate	8.325	43	106058	9.041	ug/l #	97
44) Trichloroethene	9.053	130	79602	9.791	ug/l	81
45) 1,2-Dichloropropane	9.347	63	79527	9.666	ug/l	91
46) Dibromomethane	9.459	93	38939	9.240	ug/l	96
47) Bromodichloromethane	9.659	83	101977	9.701	ug/l	89
48) Methyl methacrylate	9.435	41	52888	9.161	ug/l	99
49) 1,4-Dioxane	9.435	88	13809m	162.537	ug/l	
51) 4-Methyl-2-Pentanone	10.305	43	264487	42.442	ug/l	96
52) Toluene	10.505	92	219620	9.586	ug/l	98
53) t-1,3-Dichloropropene	10.751	75	101411	9.382	ug/l	99
54) cis-1,3-Dichloropropene	10.146	75	120659	9.337	ug/l	91
55) 1,1,2-Trichloroethane	10.951	97	53219	8.780	ug/l #	84
56) Ethyl methacrylate	10.804	69	75414	8.408	ug/l	93
57) 1,3-Dichloropropane	11.116	76	100227	9.114	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.988	63	18449	34.144	ug/l	95
59) 2-Hexanone	11.169	43	268655	48.606	ug/l	98
60) Dibromochloromethane	11.345	129	60986	9.306	ug/l	100
61) 1,2-Dibromoethane	11.468	107	53151	9.312	ug/l	90
64) Tetrachloroethene	11.051	164	73636	9.992	ug/l #	72
65) Chlorobenzene	11.950	112	254722	9.781	ug/l	91
66) 1,1,1,2-Tetrachloroethane	12.032	131	63835	8.977	ug/l	91
67) Ethyl Benzene	12.038	91	450069	9.609	ug/l	97
68) m/p-Xylenes	12.162	106	355805	19.415	ug/l	94
69) o-Xylene	12.538	106	163358	9.268	ug/l	97
70) Styrene	12.555	104	287208	9.511	ug/l	98
71) Bromoform	12.743	173	31255	8.512	ug/l #	99
73) Isopropylbenzene	12.878	105	426241	9.460	ug/l	99
74) N-amyl acetate	12.655	43	108243	8.777	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.155	83	64804	8.514	ug/l	96
76) 1,2,3-Trichloropropane	13.213	75	59807m	8.926	ug/l	
77) Bromobenzene	13.196	156	86981	9.027	ug/l	90
78) n-propylbenzene	13.266	91	540278	9.312	ug/l	97
79) 2-Chlorotoluene	13.360	91	299204	9.532	ug/l	99
80) 1,3,5-Trimethylbenzene	13.425	105	353641	8.986	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.919	75	24479	9.325	ug/l #	84
82) 4-Chlorotoluene	13.478	91	311110	9.122	ug/l	95
83) tert-Butylbenzene	13.724	119	333645	9.407	ug/l	94
84) 1,2,4-Trimethylbenzene	13.777	105	407482	9.646	ug/l	97
85) sec-Butylbenzene	13.930	105	518636	9.276	ug/l	97
86) p-Isopropyltoluene	14.059	119	484854	9.846	ug/l	97
87) 1,3-Dichlorobenzene	14.059	146	224490	9.628	ug/l	98
88) 1,4-Dichlorobenzene	14.147	146	250197	10.165	ug/l	98
89) n-Butylbenzene	14.424	91	483098	9.518	ug/l	99
90) Hexachloroethane	14.741	117	68497	8.902	ug/l	100
91) 1,2-Dichlorobenzene	14.488	146	198550	9.276	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	15.182	75	10928	7.777	ug/l	98
93) 1,2,4-Trichlorobenzene	16.004	180	124485	9.060	ug/l	93
94) Hexachlorobutadiene	16.133	225	59597	9.395	ug/l	97
95) Naphthalene	16.304	128	182501	9.571	ug/l #	95
96) 1,2,3-Trichlorobenzene	16.556	180	105897	9.066	ug/l	94

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

